

**What is claimed:**

1. A power generating system, comprising:
  - a ring assembly including a plurality of blades connected to a hub;
  - a magnetic flux generating element coupled to the ring assembly along a
  - 5 circumference of rotation of the ring assembly;
  - a current conducting element disposed on the system, which cooperates with
  - the flux generating element so that relative movement induces electric
  - current therein.
- 10 2. The system of claim 1 further comprising a rotary motivating mechanism
- rotatingly coupled to the hub.
3. The system of claim 1 wherein the rotary motivating mechanism is an opposed
- piston, opposed cylinder internal combustion engine.
- 15 4. The system of claim 1 wherein the engine is an opposed piston, opposed cylinder
- engine having a crankshaft.
5. The system of claim 1 wherein the blades comprise a propeller adapted to produce
- 20 thrust propulsion for an aerial vehicle.
6. The system of claim 1 wherein the magnetic flux generating element is disposed
- on a circumferential element linking end portions of the blades.
- 25 7. The system of claim 6 wherein the circumferential element is a continuous hoop
- disposed on the ends of the blades and adapted to support a plurality of magnetic
- flux generating elements circumferentially disposed on the hoop.
8. The system of claim 7 wherein a plurality of current conducting elements are
- 30 disposed on a stationary support included in the system.
9. The system of claim 8 wherein the magnetic flux generating elements and the
- current conducting elements are configured to provide a three-phase electrical
- power generation.

10. A ring generator comprising:  
an opposed piston, opposed cylinder engine having a crankshaft;  
a ring assembly having a shaft coupled to the crankshaft, and a magnetic flux  
5 generating element; and  
a current conducting element disposed in fixed relation to the ring assembly.
11. The ring generator of claim 10 wherein the ring assembly includes a speed  
differential apparatus disposed on the shaft and coupled to the crankshaft.
- 10 12. The ring generator of claim 10 wherein the magnetic flux generating element is a  
plurality of alternating polarity magnets.
13. The ring generator of claim 10 wherein the magnetic flux generating element  
15 comprises a circumferential element comprising a ferrous material.
14. The ring generator of claim 10 wherein the current conducting element is a stator  
assembly.
- 20 15. The ring generator of claim 14 wherein the stator assembly comprises a three-  
phase winding.
16. The ring generator of claim 14 wherein the stator assembly comprises two  
winding sets, each winding set being a three-phase winding.
- 25 17. A power generating system comprising:  
a ring assembly comprising a plurality of blades connected to a hub, and at an  
end opposite the hub the ring assembly comprises a circumferential element;  
a magnetic flux generating element coupled to the ring assembly along a  
30 circumference of rotation of the ring assembly, the magnetic flux  
generating element comprising a plurality of magnets disposed on an  
inside diameter of the circumferential element; and

a current conducting element disposed on the system, which cooperates with the flux generating element so that during relative rotating movement of the elements electric current flow is induced.

- 5     18. The system of claim 17 wherein the circumferential element comprises a continuous loop of ferrous material.
19. The system of claim 17 wherein the circumferential element comprises three arc segments, each segment being non contiguous.
- 10     20. The system of claim 17 wherein the current conducting element comprises a pair of stator assemblies.
21. The system of claim 20 wherein each stator assembly comprises a three-phase coil winding.
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